



ELSEVIER

## Contents

(Abstracted/indexed in: Chemical Abstracts; Current Contents; Physical, Chemical &amp; Earth Sciences; INSPEC; PASCAL/CNRS)

## Vol. 6 No. 1

## Characterization of thermal sprayed bioactive coatings

- E. Lugscheider, M. Knepper and A. Nyland (Aachen, Germany) ..... 1

Hydrolysis of monomolecular films of long chain phosphatidylcholine by phospholipase A<sub>2</sub> in the presence of β-cyclodextrin

- M.G. Ivanova, T. Ivanova (Sofia, Bulgaria), R. Verger (Marseille, France) and I. Panaiotov (Sofia, Bulgaria) ..... 9

## Influence of synthetic salivary cystatin SN segments on hydroxyapatite mineralization

- E.M. Burke, K. Wikel, M. Johnsson, E.J. Bergey, P.A. Raj, M.J. Levine and G.H. Nancollas (Buffalo, NY, USA) ..... 19

## Adsorption from lipase-surfactant solutions onto methylated silica surfaces

- K. Wannerberger, M. Wahlgren and T. Arnebrant (Lund, Sweden) ..... 27

## Characterization of pH-sensitive polymeric supports for selective precipitation of proteins

- C.S. Chern, C.K. Lee, C.Y. Chen and M.J. Yeh (Taipei, Taiwan) ..... 37

## Zeta potentials of human salivary micelle-like particles

- M. Rykke, A. Young, G. Smistad, G. Rölla and J. Karlsen (Oslo, Norway) ..... 51

## Phase diagram near the three-phase temperature region of polymer solution

- T. Dobashi (Gunma, Japan) and M. Nakata (Sapporo, Japan) ..... 57

## Vol. 6 No. 2

Removal of lysozyme from methylated silicon oxide surfaces by a non-ionic surfactant, pentaethylene glycol mono n-dodecyl ether (C<sub>12</sub>E<sub>5</sub>)

- M. Wahlgren and T. Arnebrant (Lund, Sweden) ..... 63

## The adsorption of water and amino acids onto hydrophilic and hydrophobic quartz surfaces

- S. Alaeddine and H. Nygren (Göteborg, Sweden) ..... 71

## Bile acids cannot mix with cholesterol in two-dimensional phases (monolayers) formed on the substrate of 5 M aqueous NaCl solution at pH 1.2 and 25°C

- G. Sugihara, S.K. Yamamoto, S. Nagadome, S. Lee (Fukuoka, Japan), Y. Sasaki (Osaka, Japan), O. Shibata (Fukuoka, Japan) and H. Igimi (Osaka, Japan) ..... 81

## A monolayer study on mixed systems of different conjugated bile acids on 5 M aqueous NaCl solution at pH 1.2 and 25°C

- G. Sugihara, Y. Yamato, S.K. Yamamoto, S. Lee (Fukuoka, Japan), Y. Sasaki (Osaka, Japan), S. Nagadome and O. Shibata (Fukuoka, Japan) ..... 91

## Laser light scattering studies from blood platelets and their aggregates

- P.J. David, A.C. Nair, V.J. Menon and D.N. Tripathi (Uttar Pradesh, India) ..... 101

## Surface characteristics and aggregation of microbiologically produced sulphur particles in relation to the process conditions

- A. Janssen, A. de Keizer, A. van Aelst, R. Fokkink, H. Yangling and G. Lettinga (Wageningen, The Netherlands) ..... 115

## Thermotropic behavior of phospholipid bilayers interacting with metal ions at subzero region

- K.O. Kwon and M.J. Kim (Seoul, South Korea) ..... 131

## Contact formation in polylysine-mediated membrane-glass interaction

N.E. Thomas, W.T. Coakley and C. Winters (Cardiff, UK) .....	139
<b>Corrigendum .....</b>	149
<b>Vol. 6 No. 3</b>	
Effect of ionic strength and ionic species on partitioning behavior of hydrophobic and hydrophilic polystyrene latex beads in aqueous two-phase polymer systems B.C. Tripp (Andover, MA, USA), E.W. Kaler, S.I. Stanley (Newark, DE, USA) and A. Kopatsis (Wilmington, DE, USA) .....	151
A comparative study of the sorption of serum albumin, lysozyme, and cytochrome C at phospholipid membranes using surface tensiometry, electrophoresis, and leakage of probe molecules H. Matsumura and M. Dimitrova (Tsukuba, Japan) .....	165
Surface behaviour of long-chain lipolytic products (a 1-to-1 mixture of oleic acid and diolein) spread as monomolecular films in the presence of long-chain triglycerides S. Labourdenne (Marseille Cedex/Saint-Clément-Les-Places, France), M.G. Ivanova (Marseille Cedex, France)(Sofia, Bulgaria), O. Brass (Marseille Cedex/Saint-Clément-Les-Places, France), A. Cagna (Saint-Clément-Les-Places, France) and R. Verger (Marseille Cedex, France) .....	173
A correlative study of the measurement of protein adsorption to steel, glass, polypropylene, and silicone surfaces using ToF-SIMS and dynamic contact angle analyses J. Davies, C.S. Nunnerley (Bucks, UK) and A.J. Paul (Manchester, UK) .....	181
Protein adsorption at <i>n</i> -butane plasma polymer surfaces M. Malmsten (Stockholm, Sweden), J.-Å. Johansson (Columbia, USA), N.L. Burns (Stockholm, Sweden) and H.K. Yasuda (Columbia, USA) .....	191
Loss of enzyme activity due to adsorption onto emulsion droplets A.L. de Roos and P. Walstra (Wageningen, The Netherlands) .....	201
Scanning force microscopy of cholesterol multilayers prepared with the spin-coating technique E. ten Grotenhuis, W.J.M. van der Kemp, J.G. Blok, J.C. van Miltenburg and J.P. van der Eerden (Utrecht, The Netherlands) .....	209
Electrical conductivity and dielectric dispersion of <i>E. coli</i> 70S ribosomes and of 30S and 50S subunits: effects of magnesium ions A. Bonincontro, G. Briganti, A. Giansanti, F. Pedone and G. Risuleo (Roma, Italy) .....	219
<b>Vol. 6 Nos. 4/5</b>	
Binding of sodium dodecylsulphate to starch polysaccharides quantified by surface tension measurements E. Svensson (Lund, Sweden), M. Gudmundsson (Reykjavik, Iceland) and A.-C. Eliasson (Lund, Sweden) .....	227
Effects of ultrasonic treatment on the efficacy of gentamicin against established <i>Pseudomonas aeruginosa</i> biofilms C.-T. Huang, G. James (Bozeman, MT, USA), W.G. Pitt (Provo, UT, USA) and P.S. Stewart (Bozeman, MT, USA) .....	235
Effect of hydrophobic protein SP-C on structure and dilatational properties of the model monolayers of pulmonary surfactant I. Panaiotov, Tz. Ivanova (Sofia, Bulgaria), J. Proust, F. Boury, B. Denizot (Angers, France), K. Keough and S. Taneva (St. John's, Canada) .....	243
Preparation and stabilization of simple and multiple emulsions using a microporous glass membrane Y. Mine (Ontario, Canada), M. Shimizu and T. Nakashima (Miyazaki, Japan) .....	261
Study of liposomal drug delivery systems. 3. Dynamic <i>in-vitro</i> release of steroids from multilamellar liposomes D.E. Lopes de Menezes and E.I. Varga-Butler (Halifax, Canada) .....	269
Concentration dependence of the film pressure of human serum albumin at the water/decane interface P. Chen, S. Lahooti, Z. Polcová (Ontario, Canada), M.A. Cabrerizo-Vilchez (Granada, Spain) and A.W. Neumann (Ontario, Canada) .....	279
Deposition of heated whey proteins on a chromium oxide surface T. Jeurink, M. Verheul (Ede, The Netherlands), M.C. Stuart (Wageningen, The Netherlands) and C.G. de Kruijff (Ede, The Netherlands) .....	291

Horseradish peroxidase enzyme immobilized on titanium(IV) oxide coated cellulose microfibers: study of the enzymatic activity by flow injection system L.R.D. da Silva, Y. Gushikem and L.T. Kubota (Campinas, Brazil) .....	309
Time and temperature aspects of $\beta$ -lactoglobulin removal from methylated silica surfaces by sodium dodecyl sulphate C.A.-C. Karlsson, M.C. Wahlgren and A.C. Trägårdh (Lund, Sweden) .....	317
Initial reactions of whole blood with hydrophilic and hydrophobic titanium surfaces H. Nygren (Göteborg, Sweden) .....	329
<i>Vol. 6 No. 6</i>	
Reciprocal influence between the protein and lipid components of a lipid-protein membrane model A. Diederich (Mainz, Germany), C. Sponer, D. Pum, U.B. Sleytr (Wien, Austria) and M. Lösche (Leipzig, Germany) .....	335
Measurement of attachment force of microbial cells H. Morisaki, K. Nakagawa and H. Shiraishi (Shiga, Japan) .....	347
Formation and structural heat-stability of $\beta$ -lactoglobulin/surfactant complexes S. Magdassi, Y. Vinetsky (Jerusalem, Israel) and P. Relkin (Massy, France) .....	353
Solubilization kinetics of phospholipid vesicles by sodium taurocholate G.A. Ramaldes, E. Fattal, F. Puisieux and M. Ollivon (Châtenay-Malabry Cedex, France) .....	363
Changes in charge density and softness of a poly(L-lactide) microcapsule surface in the hydrolytic degradation process K. Makino and H. Ohshima (Tokyo, Japan) .....	373
Dispersion of stratum corneum in an aqueous mixed solution of surfactants: the effect of a mixture of sodium dodecyl sulfate and N,N-dimethyldodecylamine oxide K. Takahashi, M. Hosaka, Y. Hanabusa, E. Ogawa, N. Suzuki, S. Hayashi, E. Yamada, M. Takahashi, S. Fukushima, H. Kamoda and M. Ueno (Tokyo, Japan) .....	379
<i>Author Index</i> .....	387
<i>Subject Index</i> .....	389
<i>Contents (Vol. 6)</i> .....	391